



**IN THE UNITED STATES OF AMERICA  
PATENT AND TRADEMARK OFFICE**

**APPLICANT:** Daniel S. Bangert

**TITLE:** Granular Particle Gripping Surface

**SERIAL NO.:** 10/099,045

**FILING DATE:** March 14, 2002

**ATTORNEY NO.:** 16342/95351-00

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT**

The following sections are being submitted for this Information Disclosure Statement:

1. Preliminary Statements
2. FORM PTO -1449 (Modified)
6. Copies Of Listed Information Items Accompanying This Statement
9. Concise Explanation Of English Language Listed Information Items  
(Optional)
10. Identification Of Person(s) Making This Information Disclosure  
Statement

**Section 1. Preliminary Statements**

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

**Section 6. Copies of Listed Information Items Accompanying This Statement**

Copies of patents listed were provided in previous related applications.

**Section 9. Concise Explanation Of English Language Listed Information Items  
(Optional)**

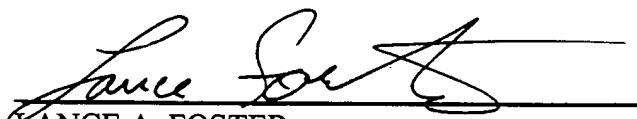
Applicant notes that a Commercial Success Declaration by Daniel S. Bangert signed on November 20, 1998 and appearing in related application Serial No. 09/267,174, discusses sales of the disclosed die insert beginning in late September of 1996. This was not noted in a previous IDS because applicant believes the sales have no relevance to applications claiming an effective filing date of September 19, 1996. Nevertheless, out of an abundance of caution, the applicant is now noting this information in case the Examiner wishes to consider it for any reason. Applicant also believes the November 20, 1998 declaration is still strong evidence of nonobviousness and urges the Examiner to so consider the declaration.

Applicant is attaching photographs of a die member which, to the best of applicant's information, has been on sale in the United States since 1999 and is manufactured by Eckel Manufacturing Company of Odessa, TX. The steel die has a thermal sprayed coating on its gripping surface. Applicant's analysis of the thermal sprayed coating indicates that its constituents are approximately 23% chrome, 70% iron and a variety of other trace elements, including 0.3% carbon. Applicant did not detect the presence of any discrete granular particles in the thermal spray coating, but it appears that molten droplets do solidify on the surface of the sprayed coating. A simple comparison using the scratch method indicates that the individual droplets have a hardness in excess of 60 HRC whereas the base metal has a hardness of 10 HRC or 90 HRB, thereby possibly allowing the droplets to penetrate into the base metal if a sufficient load is placed on the dies.

**Section 10. Identification of Person(s) Making THIS INFORMATION DISCLOSURE STATEMENT**

The person making this statement is the attorney who signs below on the basis of the information in the attorney's file.

Reg. No.: 38,882  
Tel. No.: (225) 248-2106

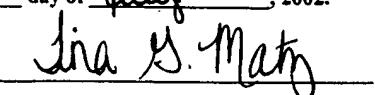


LANCE A. FOSTER

JONES, WALKER, WAECHTER, POITEVENT,  
CARRÈRE & DENÈGRE, L.L.P.  
5<sup>TH</sup> FLOOR, FOUR UNITED PLAZA  
8555 UNITED PLAZA BOULEVARD  
BATON ROUGE, LOUISIANA 70809

**Certificate of Mailing**

I hereby certify that this correspondence is being deposited with the  
United States Postal Service as first class mail in an envelope addressed  
to: Assistant Commissioner for Patents, Washington, D.C. 20231 on  
this 31<sup>st</sup> day of July, 2002.



## Section 2. Form PTO - 1449 (Modified)

FACSIMILE OF  
FORM PTO-1449  
(Rev. 6-89)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

## INFORMATION DISCLOSURE CITATION

(USE SEVERAL SHEETS IF NECESSARY)

ATTORNEY'S DOCKET NUMBER      SERIAL NUMBER  
16342/95351-00

APPLICANT  
Daniel S. Bangert

FILING DATE      GROUP ART UNIT



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	✓ 1371943	03/15/21	Sperduti			
	✓ 2637236	05/05/53	Vergnani, et al	81	180	
	✓ 2714321	08/02/55	Tamplin	81	52	
	✓ 3024128	03/06/62	Dawson	117	22	
	✓ 3365762	01/30/68	Spiri	24	263	
	✓ 3656522	04/18/72	Ingimarsson	145	50	
	✓ 4576067	03/18/86	Buck	81	57.15	
	✓ 4643740	02/17/87	Nicolson	51	293	
	✓ 4778730	10/18/88	Zucker	81	900	
	✓ 4989909	02/05/91	Bouliigny, Jr. et al	294	119.3	
	✓ 5148726	09/22/92	Huebschen, et al	81	119	
	✓ 5150642	09/29/92	Moody, et al	81	57.18	
	✓ 5451084	09/09/95	Jansch	294	119.3	

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLIC. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES	NO
✓ 2063743	06/1981	Great Britain - Crowcroft	81	900	X	

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

✓ Advertisement published by C4 Carbides in Great Britain more than one year prior to the filing of U.S. application serial number 08/713,444 filed on September 13, 1996 (now abandoned), entitled "The Use of High Friction Materials"

Kinzel, Buttner; Evaluation of Corrosion on CRA-Pipe; September 9, 1996; Kuala Lumpur, Malaysia

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.